

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 7, 13 and 19. This listing of claims will replace all prior versions, and listings, of claims in the application.

CLAIMS

What is claimed is:

- 1 1. (Currently Amended) A radio frequency amplifier that provides an electrical
2 power to an electrode adapted to be placed in contact with a cornea having a tissue impedance,
3 comprising:

4 a radio frequency electrical circuit calibrated to provide an actual power curve to the
5 cornea within +/- 10% of a desired power curve over an operating range of the tissue impedance.
- 1 2. (Original) The radio frequency amplifier of claim 1, wherein said radio
2 frequency electrical circuit includes an transformer, a capacitor, and a pre-load resistor in parallel
3 with a patient load resistance.
- 1 3. (Original) The radio frequency amplifier of claim 1, wherein the actual power
2 curve varies between .6 to .15 watts.
- 1 4. (Original) The radio frequency amplifier of claim 3, wherein radio frequency
2 electrical circuit applies power to a load with an impedance that varies between 330 to 2600
3 ohms.

1 5. (Original) The radio frequency amplifier of claim 1, wherein said radio
2 frequency electrical circuit generates a series of damped waveforms.

1 6. (Original) The radio frequency amplifier of claim 1, wherein the operating range
2 of the actual power curve has a time duration less than 1 second.

1 7. (Currently Amended) A radio frequency amplifier that provides an electrical
2 power to an electrode adapted to be placed in contact with a cornea having a tissue impedance,
3 comprising:

4 radio frequency circuit means that is calibrated for providing an actual power curve to the
5 cornea within +/- 10% of a desired power curve over an operating range of the tissue impedance.

1 8. (Original) The radio frequency amplifier of claim 7, wherein said radio
2 frequency circuit means includes an transformer, a capacitor, and a pre-load resistor in parallel
3 with patient load resistance.

1 9. (Original) The radio frequency amplifier of claim 7, wherein the actual power
2 curve varies between .6 to .15 watts.

1 10. (Original) The radio frequency amplifier of claim 9, wherein radio frequency
2 circuit means applies power to a load with an impedance that varies between 330 to 2600 ohms.

1 11. (Original) The radio frequency amplifier of claim 7, wherein said radio
2 frequency circuit means generates a series of damped waveforms.

1 12. (Original) The power supply of claim 7, wherein the operating range of the
2 actual power curve has a time duration less than 1 second.

1 13. (Currently Amended) A medical system that ~~can~~ is adapted to denature a cornea
2 having a tissue impedance, comprising:

3 a radio frequency electrical circuit calibrated to provide an actual power curve to the
4 cornea within +/- 10% of a desired power curve over an operating range of the tissue impedance;

5 an electrode coupled to said radio frequency electrical circuit and which is placed into
6 contact with the cornea; and,

7 a ground element coupled to said radio frequency electrical circuit.

1 14. (Original) The system of claim 13, wherein said radio frequency electrical circuit
2 includes a transformer, a capacitor, and a pre-load resistor in parallel with patient load resistance.

1 15. (Original) The system of claim 13, wherein the actual power curve varies
2 between .6 to .15 watts.

1 16. (Original) The system of claim 15, wherein said radio frequency electrical circuit
2 applies power to a load with an impedance that varies between 330 to 2600 ohms.

1 17. (Original) The system of claim 13, wherein said radio frequency electrical circuit
2 generates a series of damped waveforms.

1 18. (Original) The system of claim 13, wherein the operating range of the actual
2 power curve has a time duration less than 1 second.

1 19. (Currently Amended) A medical system that ~~can~~ is adapted to denature a cornea
2 having a tissue impedance, comprising:

3 an electrode that is placed into contact with the cornea;

4 radio frequency circuit means that is calibrated for providing an actual power curve to
5 said electrode and the cornea within +/- 10% of a desired power curve over an operating range of
6 the tissue impedance; and,

7 a ground element coupled to said radio frequency circuit means.

1 20. (Original) The system of claim 19, wherein said radio frequency circuit means
2 includes a transformer, a capacitor, and a pre-load resistor in parallel with patient load resistance.

1 21. (Original) The system of claim 19, wherein the actual power curve varies
2 between .6 to .15 watts.

1 22. (Original) The system of claim 21, wherein radio frequency circuit means
2 applies power to a load with an impedance that varies between 330 to 2600 ohms.

1 23. (Original) The system of claim 19, wherein said radio frequency circuit means
2 generates a series of damped waveforms.

1 24. (Original) The power supply of claim 19, wherein the operating range of the
2 actual power curve has a time duration less than 1 second.

1 25. (Withdrawn) A method for correcting a vision of a cornea having a tissue
2 impedance, comprising:
3 applying power to the cornea with a power curve that is within +/- 10% of a desired
4 power curve over an operating range of the tissue impedance.

1 26. (Withdrawn) The method of claim 25, wherein the power is applied in a circular
2 pattern about the cornea.

1 27. (Withdrawn) The method of claim 26, wherein the circular pattern has a
2 diameter between 6 to 8 millimeters.

1 28. (Withdrawn) The method of claim 25, wherein a tip of the electrode is inserted
2 into the cornea.

1 29. (Withdrawn) The method of claim 25, wherein the applied power varies between
2 .6 to .15 watts.

1 30. (Withdrawn) The method of claim 25, wherein the power is applied to a load
2 with an impedance that varies between 330 to 2600 ohms.